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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,269	04/01/2004	Hiroyuki Ishida	Q80854 8474		
Sughrue Mion PLLC 2100 Pennsylvania Avenue, N. W. Washington, DC 20037-3213			EXAMINER TSIDULKO, MARK		
			2875		
			DATE MAILED: 07/27/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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:		Application	on No.	Applicant(s)	M			
Office Action Summary		10/814,26	39	ISHIDA ET AL.				
		Examiner		Art Unit				
		Mark Tside	ulko	2875				
Period f	The MAILING DATE of this commun	ication appears on the	cover sheet with the	correspondence addre	9SS			
A SH THE - Exte afte - If th - If No - Fail Any	HORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commerce period for reply specified above is less than thirty (3) period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months a led patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evenunication. 0) days, a reply within the statuatutory period will apply and will, by statute, cause the appl	ent, however, may a reply be to story minimum of thirty (30) da Il expire SIX (6) MONTHS fror ication to become ABANDON	imely filed ys will be considered timely. the mailing date of this comr ED (35 U.S.C. § 133).	nunication.			
Status								
1)⊠	Responsive to communication(s) file	d on <u>01 April 2004</u> .		•				
2a)□	This action is FINAL .	2b)⊠ This action is no	on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims			•				
5)□ 6)⊠ 7)□ 8)□ Applicat 9)□	Claim(s) 1-4 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction Papers The specification is objected to by the The drawing(s) filed on 01 April 2004	re withdrawn from cor tion and/or election re e Examiner. is/are: a)⊠ accepte	equirement. d or b)⊡ objected to	•				
11)[Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	the correction is require	ed if the drawing(s) is of	ojected to. See 37 CFR	` '			
Priority (under 35 U.S.C. § 119				·			
a)	Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority of 3. Copies of the certified copies of application from the Internation See the attached detailed Office action	documents have beer documents have beer of the priority docume nal Bureau (PCT Rule	n received. n received in Applicat nts have been receive 17.2(a)).	tion No red in this National Sta	age			
Attachmen	• •				•			
2) 🔲 Notic 3) 🔲 Infori	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		i2)			

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DETAILED ACTION

Claim Objections

Claim 3 objected to because of the following informalities: the phrase "...light from at lease a part of an opening..." (line 5) should be changed to "...light from at least a part of an opening...". Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thominet (US 6,565,247) in view of Ueda (US 6,617,615).

Referring to Claim 1 Thominet discloses (Figs. 1, 4) a vehicle headlight (col. 1, lines 57-64) having a plurality of LEDs as a light source and an optical device [14] and [16] to form a cut line to determine a boundary between bright and dark by deflecting the light generated by the LEDs and projecting a shape of the light emitting area.

Thominet discloses the instant claimed invention except for linear type LED.

Ueda discloses a linear semiconductor light-emitting element (claim 1). Using of this type of LED allow to obtain horizontally wider light distribution pattern and therefore to increase an illuminated area.

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Referring to Claim 2 Tominet discloses (Fig. 1) a plurality of LEDs.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the linear semiconductor light-emitting element, as taught by Ueda for the device of Thominet, in order to obtain wider illuminated area.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thominet and Ueda as applied to claim 1 above, and further in view of Komoto (US 5,753,940).

Thominet et al. disclose the instant claimed invention except for an active layer and a groove for emitting a light wherein a depth of the groove reaching at least a part of the active layer.

Komoto discloses (Fig.3C) an active layer [3] and a groove for emitting a light wherein a depth of the groove reaching at least a part of the active layer.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the semiconductor of Thominet et al. with the active layer and a groove, as taught by Komoto, for emitting a light to the external of the semiconductor chip.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Komoto (US 5,753,940).

Komoto discloses (Fig.3C) an active layer [3] and a groove for emitting a light wherein a depth of the groove reaching at least a part of the active layer.

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It is clearly understood for those skilled in the art of illumination, that the light from the semiconductor element, if to use in a vehicle headlamp, will be generated in a direction corresponding to at least a part of a cut line between bright and dark.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the semiconductor of Thominet et al. with the active layer and a groove, as taught by Komoto, for emitting a light to the external of the semiconductor element.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (571)272-2384. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for all communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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M.T.

May 27, 2005

JOHN ANTHONY WARD PRIMARY EXAMINER